

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P250036

Luminaire Tested: **LSR8B80D010 EC8B80827 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80827 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7296.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

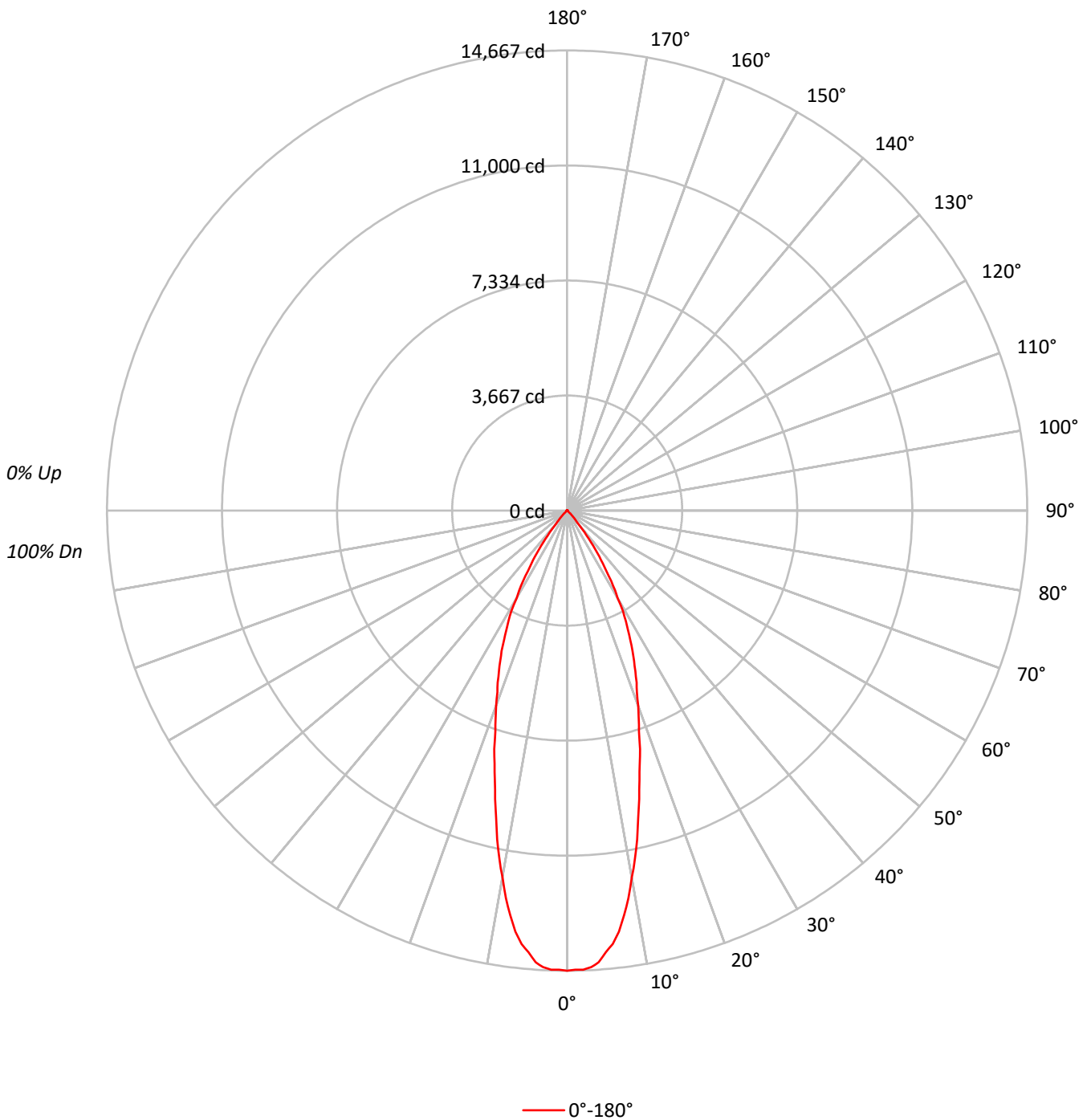
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89		92	90	87		90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83		88	85	82		86	84	81	80
5	96	88	83	79	94	87	83	79	86	82	78		84	81	78		83	80	77	76
6	92	84	79	75	90	83	78	74	82	77	74		80	76	74		79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67		73	69	66		72	69	66	65
9	81	72	67	64	80	72	67	64	71	66	63		70	66	63		69	66	63	62
10	78	69	64	61	77	69	64	61	68	63	60		67	63	60		67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	452267
5°	437369
10°	371952
15°	283891
20°	216962
25°	168130
30°	114671
35°	67372
40°	20602
45°	8103
50°	125
55°	140
60°	160
65°	372
70°	694
75°	608
80°	462
85°	2724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1280.9	17.6
10°-20°	2482.1	34.0
20°-30°	2234.7	30.6
30°-40°	1105.7	15.2
40°-50°	168.2	2.3
50°-60°	6.9	0.1
60°-70°	8.9	0.1
70°-80°	3.4	0.0
80°-90°	5.2	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5997.8	82.2
0°-40°	7103.5	97.4
0°-60°	7278.6	99.8
0°-90°	7296.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7296.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14667	
5°	14130	###
15°	8893	2482
25°	4942	2235
35°	1790	1106
45°	186	168
55°	3	7
65°	5	9
75°	5	3
85°	8	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	14666.7
1°	14636.2
2°	14643.8
3°	14569.9
4°	14435.1
5°	14129.6
6°	13895.3
7°	13523.7
8°	13024.7
9°	12505.3
10°	11878.9
11°	11318.9
12°	10718.1
13°	10053.6
14°	9480.8
15°	8892.7
16°	8391.1
17°	7948.2
18°	7403.4
19°	7003.6
20°	6611.6
21°	6204.2
22°	5906.4
23°	5560.1
24°	5241.9
25°	4941.5
26°	4587.6
27°	4269.4
28°	3984.3
29°	3671.1
30°	3220.5
31°	2966.0
32°	2645.1
33°	2293.8
34°	2026.5
35°	1789.7
37.5°	1132.9
40°	511.8
42.5°	348.8
45°	185.8
47.5°	104.3
50°	2.6
52.5°	10.2
55°	2.6
57.5°	15.3



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CANDELA DISTRIBUTION (continued):

	0°
60°	2.6
62.5°	12.8
65°	5.1
67.5°	12.8
70°	7.7
72.5°	2.6
75°	5.1
77.5°	0.0
80°	2.6
82.5°	10.2
85°	7.7
87.5°	0.0
90°	0.0

(END OF REPORT)